FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPF	ROVAL
	OMB Number:	3235-0287
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0.5

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	Check this box if no longer subject to
\neg	Section 16. Form 4 or Form 5
J	obligations may continue. See
	Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or Se	ection 30(h)	of the I	nvestme	ent Co	mpany Act o	f 1940						
1. Name and Address of Reporting Person* O'NEIL PATRICK R.						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS								hip of Reportin pplicable) ector icer (give title low)		Owner (specify	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 04/12/2017								,	General Cour	´	
(Street) CARLSBAD CA 92010 (City) (State) (Zip)					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							ne) X Fo	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - No	n-Deriv	ative \$	Securitie	s Acc	quired	, Dis	sposed of	, or Bei	neficia	ılly Ow	ned			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									v	Amount	(A) or (D)	Price	Tra	orted isaction(s) tr. 3 and 4)		(Instr. 4)	
Common Stock 04/12/2						04/12/2	2017	S ⁽¹⁾		1,000(1)	D	\$40.0	7(2)	10,449	D		
		Та								osed of, c			/ Owne	d			
Derivative Conversion Date Execution Date,				4. Transact			6. Date Exercisable and Expiration Date Amount of			f	8. Price of Derivativ		f 10. Ownership	11. Nature of Indirect Beneficial			

(Instr. 3)	(Instr. 3)	Price of Derivative Security	e of (Me	(Month/Day/Year)	8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		(worldinday) real)		Underlying Derivative Security (Instr. 3 and 4)		(Instr. 5)	Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

- $1.\ The\ sale\ reported\ in\ this\ Form\ 4\ was\ effected\ pursuant\ to\ a\ Rule\ 10b5-1\ trading\ plan\ adopted\ by\ the\ reporting\ person\ on\ 1/6/2017.$
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$40.02 to \$40.08, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) on this Form 4.

Remarks:

<u>/s/Patrick R. O'Neil</u> <u>04/13/2017</u>

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.